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ZIERHOFFER ANKOL

ZIERHOFFER, KAROL.

Nazwy miejscowe polnocnego Maxowsza. (Wyd. 1.) Wroclaw, Zaklad im. Ossolinskich, 1957. 417 p. (Polska Akademia Nauk. Komitet Jezykoznawczy. Prace onomastyczne, 3.) (Place names of northern Masovia. 1st ed. fold. maps, bibl., footnotes, tables) MiDW Not in DLC Poland

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STRMISKA, Gestmir, inz.; ZIERIS, Miroslav

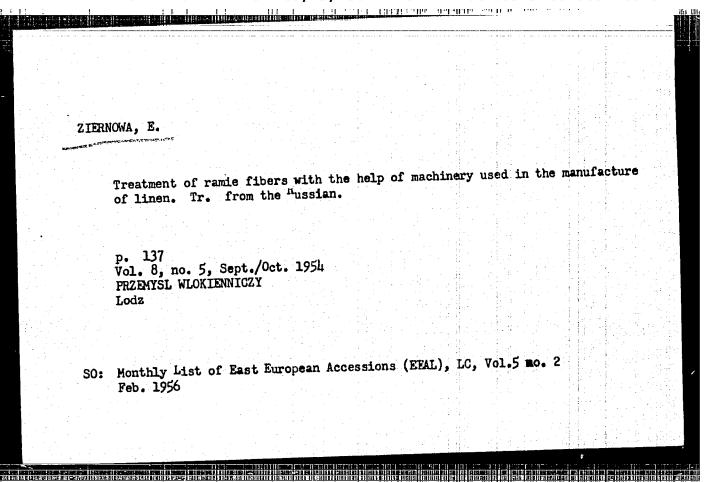
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ZIERSKI, Marian, prof. dr. med.; ZACHARA, Arma

Chemotherapy in patients with pulmonary tuberculosis excreting bacilla resistant to antitubercular drugs. Gruzlica 32 no.11: 1019-1026 N '64

1. Z Katedry i Kliniki Ftizjatrii Studium Roskonalenia lekarzy Akademi Medycznej w Szpitalu im. dr. A. Sokolowskiego w Lodsi (Kierownik: prof. dr. med. M. Zierski).

ZIERSKI, Marian, EEK, Eugenia; SIWINSKA, Irena; WOZNIAK, Stefania

One-year results of antibacterial therapy of recently discovered cavernous pulmonary tuberculosis. Gruzlica 32 no.2197-105 F'64

1. Z Katedry i Kliniki Ftizjatrii Studium Doskonalenia Lekarzy AM w Lodzi; Kierownik: prof.dr.med. M.Zierski.

ZIERSKI, Marian

Treatment of pulmonary tuberculosis in patients infected with bacilli resistant to basic antibacterial drugs. Gruslica 29 no.8:699-708

Ag '61.

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(ANTITUBERCULAR AGENTS ther)

ZIERSKI, Marian; BUKALSKA, Zofia

Value of piperazine admide in the treatment of pulmonary tuberculosis. Gruzlica 29 no.8:709-719 Ag '61.

1. Z Klimiki Ftizjatrii Studium Doskomalenia Lekarsy AM w Szpitalu im. dr A. Sokolowskiego w Lodzi Kierownik; prof. dr med. M. Zierski.

(TUBERCULOSIS PULMONARY ther)
(PIPERAZINES ther)

ZIERSKI, Marian; BEK, Eugenia; STACHLEWSKA, Stanislawa; WANAT-KONDRATOWICZ, Wladyslawa; WOZNIAK, Stefania; ZACHARA, Anna

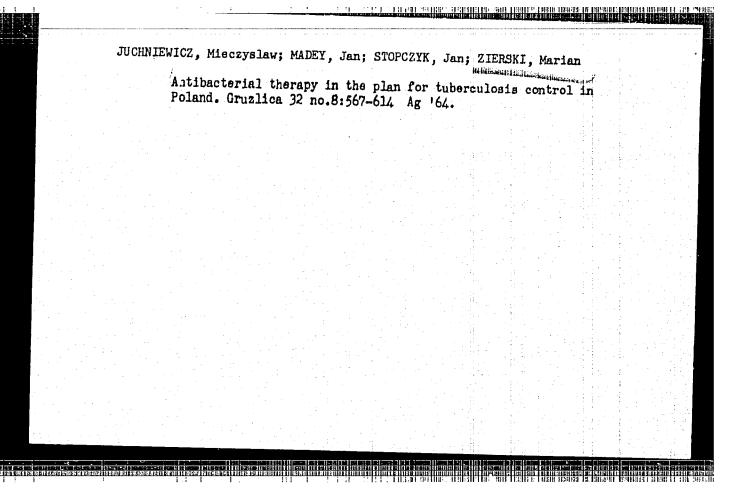
Evaluation of results of antibacterial therapy of patients with recently diagnosed pulmonary tuberculosis under clinical conditions. Gruzlica 32 no.8:621-625 Ag '64.

1. Z Katedry i Kliniki Ftizjatrii Studii Dokaztalcania Lekarzy Akademii Medycznej w Szpitalu im. dr. A. Sokolowskiego w Lodzi (Kierownik: prof. dr. med. M. Zierski).

ZIERSKI, Marian; BUKALSKA, Zotla

Morphanzinamide (Piazolina) in the treatment of pulmonary tuberculosis. Gruzlica 32 no.3:205-215 Mr 164.

1. Z Katedry i Kliniki Ftizjatrii Studium Doskonalenia Lekarzy Akademii Medycznej w Szpitalu im. dr. A. Sokolowskiego w Łodzi (Kierownik: prof. dr. med. M. Zierski).

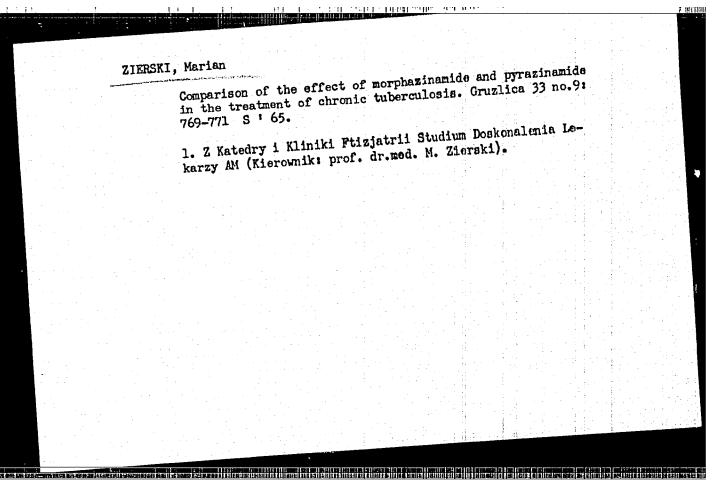


ZIERSKI, Marian, prof. dr. med.; KWIEKCWA, Agnieszka; LESKIEWICZ, Halina

The status of infectious tuberculesis in Foland. Gruzlica 32 no.11:949-959 N '64

1. Z Zespolu Nadzoru Specjalistycznego Instytutu Cruzlicy.

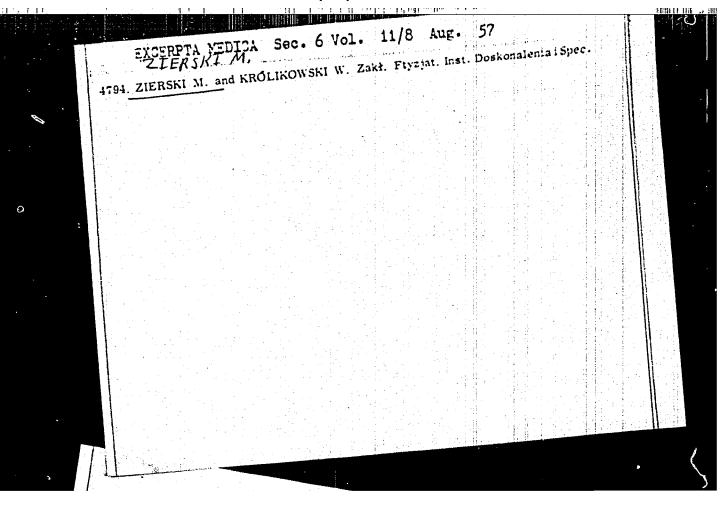
ZIERSKI, Marian. Chronic bronchitis in patients with pulmonary tuberculosis. Gruzlica 33 no.5:417-420 My '65. 1. Z Katedry i Kliniki Ftizjatrii Studium Doskonalenia Lekarzy AM w Szpitalu im. dr. A. Sokolowskiego w Lodzi (Kierownik: prof. dr. med. M. Zierski).



ZIERSKI, Marian; GAJEMSKA, Elzbieta

On the metabolism of morphazinamide in the treatment of chronic pulmonary tuberculosis. Gruzlica 33 no.9:773-777 S ' 65.

1. Z Katedry i Kliniki Ptizjatrii Studium Doskonalenia Lekarzy AM (Kierownik: prof. dr. med. M. Zierski).



ZIERSEI, Marian, MOKRZYCKI, Mikolaj, SIWINSKA, Irena

Regulta of treatment of pulmonery tuberculosis in edults with any

Results of treatment of pulmonary tuberculosis in adults with antimicrobial drugs together with ACTH and cortisons. Gruzlica 25 no.5:269-286 May 1958

1. Z Kliniki Ptyzjatrycznej w Lodzi Instytutu Doskonalenia i Specjalizacji Kadr Lekarskich. Kierownik: doc dr med. M. Zierski. Adres: Lodz, ul. Narutowicza 37.

(TUBERCULOSIS, PULMONARY, ther.

ACTH & cortisone with antituberc. drugs, results (Pol))

(ACTH, ther. use.

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(CORTISONE, ther. use

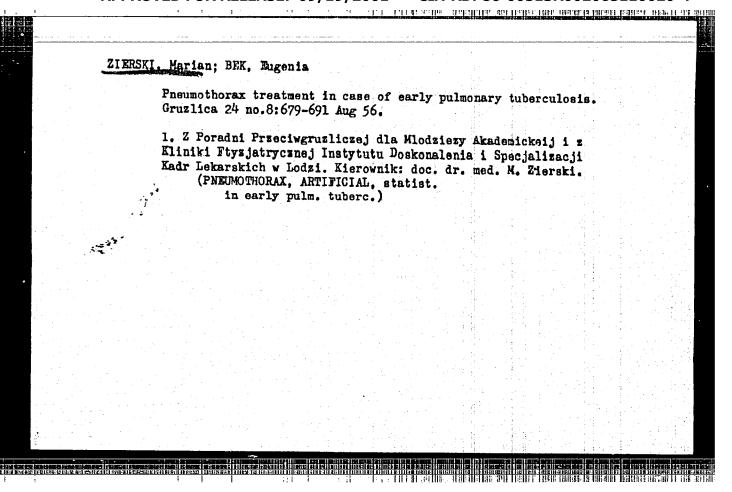
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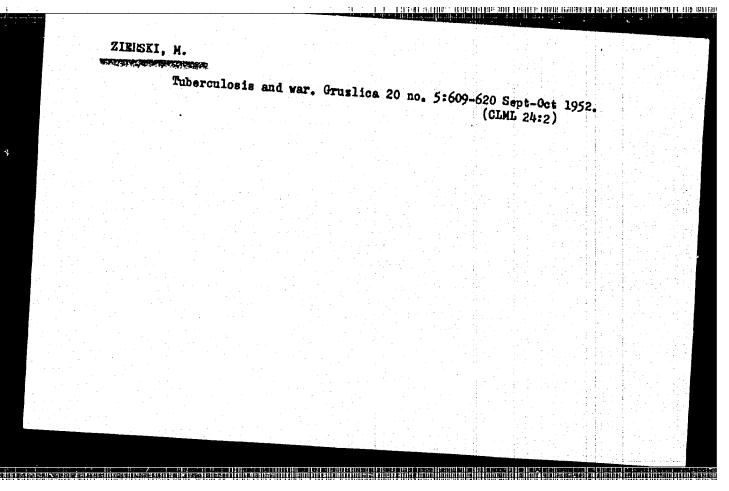
Case of anioteric leptospirosis simulating meningitis. Polski tygod.
lek. 11 no.24:1084-1086 11 June 56.

1. Z Zakladu Ftysjatrii Inst. Doskonalenia i Specjalizaci Kadr Lekarskich i se Szpitala Ftysjatrycznego im. dra Alfreda Sokolowskiego w Lodzi; kier. doc. dr. med. Marian Zierski. Lodz. ul. Marutowicza 37.

(IMPTOSPIROSIS. differential diagnosis, meningitis (Pol))

(MENINGITIS, differential diagnosis, leptospirosis (Pol))





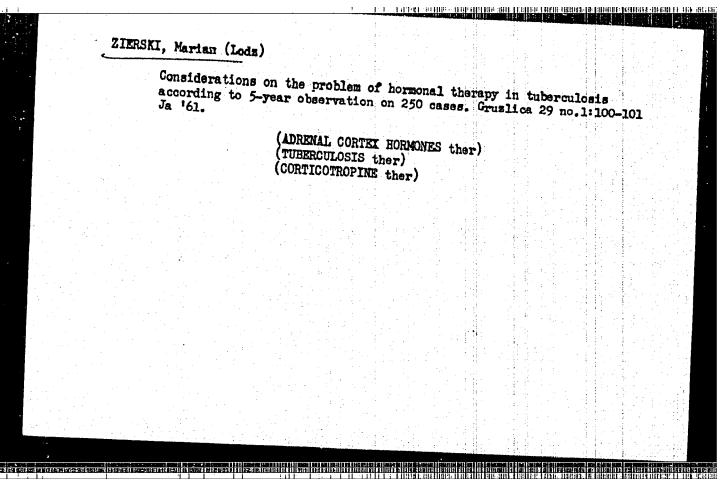
ZIERSKI, M.; MOKRZYCKI, M.

Antibiotics in preventive therapy of pulmonary tuberculosis. Gruzlica, Warsz. 19 no. 4:459-478 July-Aug. 1951 (CIML 21:3)

1. Of Municipal Lung Diseases Hospital No. 10 (Director-Marian Zierski, M. D.), Lodz.

Crusica i jej salesanis wared miodsiesy akademiskiej w Lodsie. Auberculosis control among students in universities in Lods/ Pediat. polaka 23:7-8 Nov-Dec 49 p. 739.

1. Report presented at IX. Polish Anti-Tuberculosis Congress in Lods. Sept. 1949.

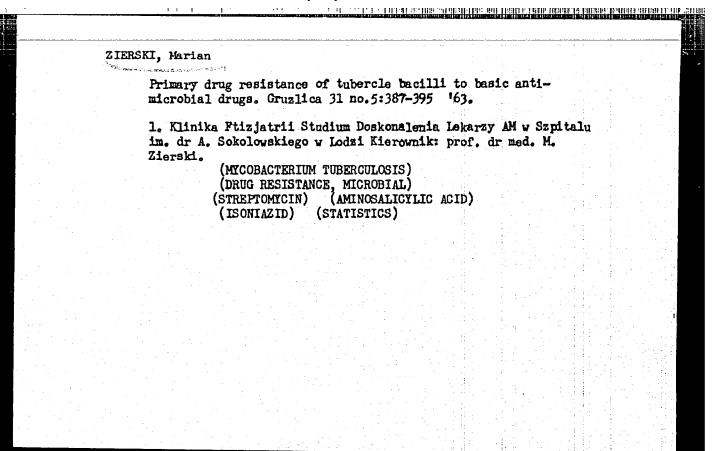


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KOLSUT, H.; ZIERSKI, M.

PAS therapy of pleural empyema. Gruzlica, Warssawa 18 no.2:226-230 Apr-June 1950. (CLML 20:7)

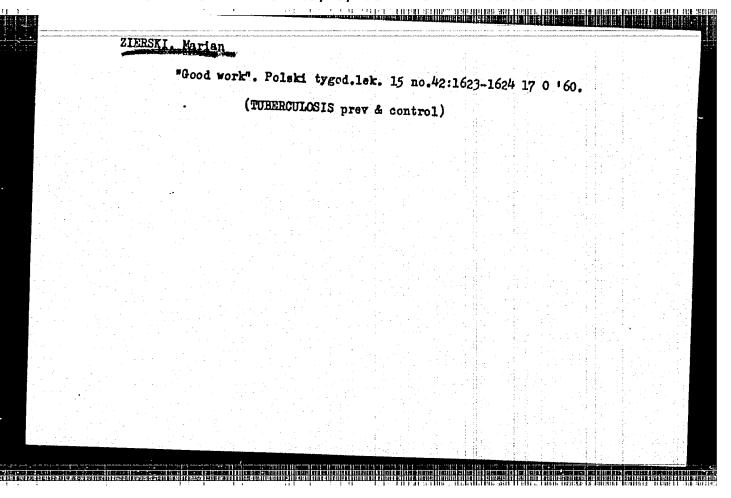
1. Of the National Institute of Tuberculosis Branch in Lodz and of Chojna Municipal Hospital-Sanatorium (Director-Harian Zierski, M.D.).



ZIERSKI, Marian

Difficulties and possibilities in the treatment of advanced pulmonary tuberculosis at the present time. Gruzlica 30 no.6: 539-546 '62.

1. Z Katedry i Kliniki Ftizjatrii Studium Doskonalenia Lekarzy AM w Szpitalu Specjalistycznym im. dr A. Sokolowskiego w Lodzi Kierownik: prof. dr med. M. Zierski. (TUBERCULOSIS, PULMONARY) (THERAFEUTICS)



Tuberculosis control among students in universities in Lodz. Pediat.polska 23 no.7-8:739 N-D '49. (CIML 19:2) 1. Report presented at IX. Polish Anti-Tuberculosis Congress in Lodz. Sept. 1949.	the state of the s	KI, M.							
1. Report presented at IK. Polish Anti-Tuberculosis Congress in Lodz. Sept. 1949.		Tuberculosis of Pediat.polska	ontrol amon 23 no.7-8:7	g students 39 N-D '49	in unive	rsities (CLML	in Lodz. 19:2)		
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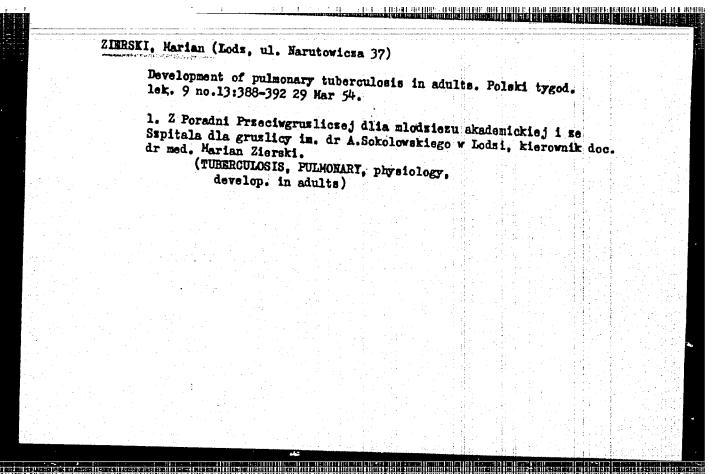
Significance of mass radiological examination of university students.

Polski tygod. lek. 9 no.35:1108-1111 30 Aug 54.

1. 2 Poradni Przeciwgrusliczej dla Młodziezy skadenickiej w Lodzi; kierownik: doc. dr Marian Zierski.

(TUBERCULOSIS, PUIMONANY, prevention and control, mass x-ray of university students in Poland)

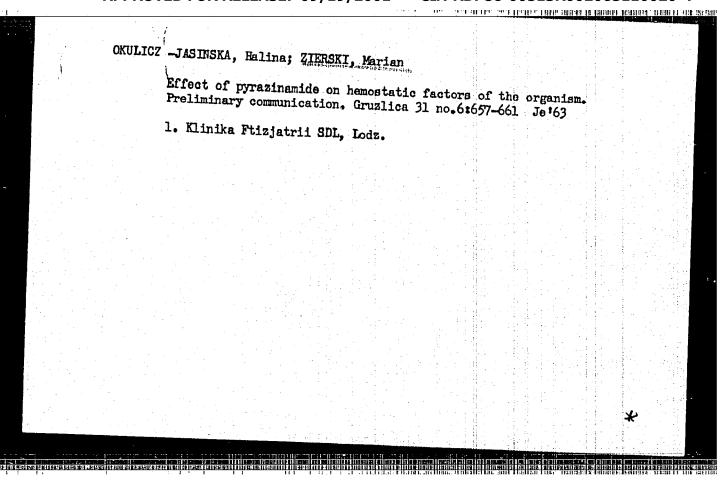
(UNIVERSITIES, mass chest x-ray of students in Poland)



ZIERSKI, Marian (Lodz, Narutowicza 37.)

Indications for resection of the pulmonary tissue in tuberculosis; views of a phthisiologist. Polski tygod. lek. 12 no.39:1511-1514 Sept 57.

1. Z Kliniki Ftyzjatrcznej Instytutu Doskonalenia i Specjalizacji Kard Lekarskich w Lodzi; kierownik: doc. dr med. Marian Zierski. (PNEUCMONECTOMY, in var. dis. tuberc., indic. (Pol))



ZIERSK	I. Marian (Lods,	ul. Narutowicza 37/4	•)		
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KOLSUT, Halina; KOZLOWSKI, Henryk; ZIERSKI, Marian

Effect of various methods of the treatment with isonicotinic acid hydraside and with streptomycin on tuberculosis in guinea pigs.

Gruslica 22 no.5:313-326 My '54.

1. Sspital Ftysjatryczny im. dr A. Sokolowskiego w Lodzi. Kierownik: doc. dr med. M. Zierski. 2. Zaklad Anatomii Patologicznej Akademii Madycznej w Lodzi. Kierownik: prof. dr med. A. Fruszczynski.

(TUBERGULOSIS, experimental, *eff. of isoniazid & streptomycin)

(MICOTINIC ACID ISOMERS, effects, *isoniazid, on exper. tuberc., alone & with streptomycin)

(STREPTOMICIN, effects, *on exper. tuberc., alone & with isoniazid)

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ZIERSKI, Marian

Lung resection in tuberculosis (phthisiologist's views). Postepy hig. med. dosw. no.2:17-22 '60.

1. Z Kliniki Ftyziatrycznej Studium Doskonalenia Lekarsky i Szpitala Specjalistycznego im. dra A. Sokolowskiego w Lodzi.

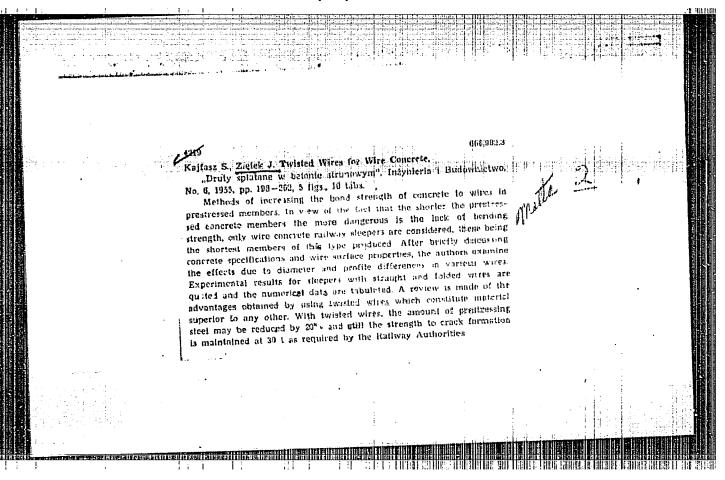
(PNEUMONECTOMY)

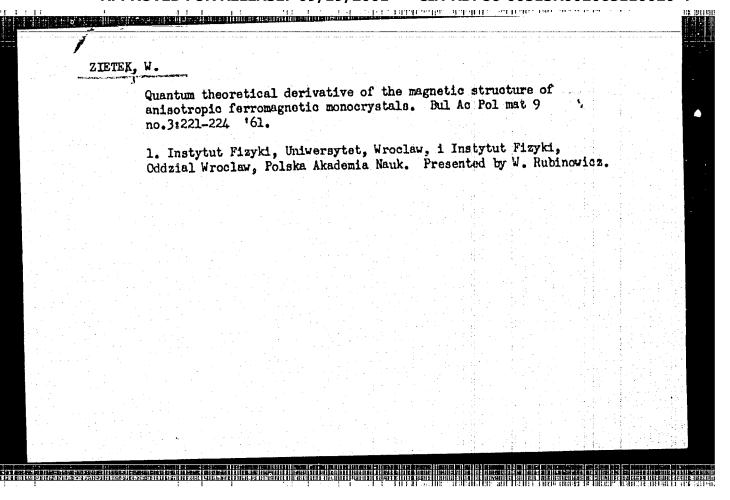
HORNUNG, Stanislaw; POLONCZYK, Mioczyslaw; DELOFF, Leonard; EERUBSKA, Barbara; GARNUSZEWSKI, Zbigniew; JAROSZEWICZ, Wiwa; JAWORSKI, Jan; MYSAKOWSKA, Helena; PARYSKI, Edwin; PECAK, Władyslaw; PREGOWSKI, Władyslaw; SOSNOWSKI, Wacław; WESTFAL, Irena; ZIERSKI, Marian

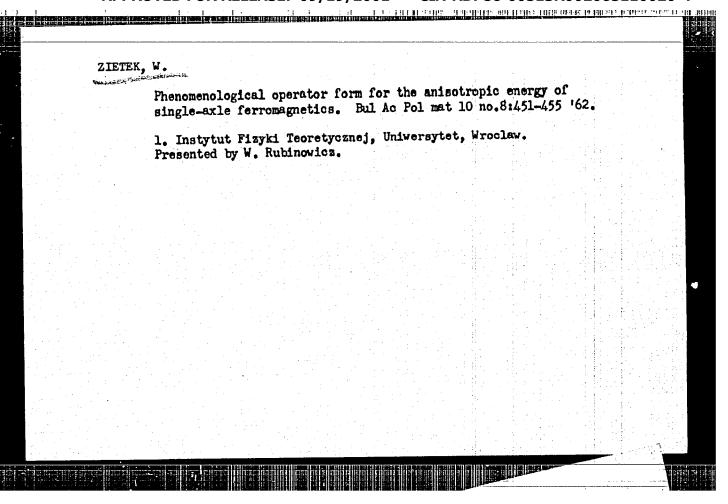
Primary resistance to basic antitubercular drugs in pulmonary tuberculosis patients observed in Poland during the period of 1961-1962. Gruzlica 32 no.8:629-636 Ag '64.

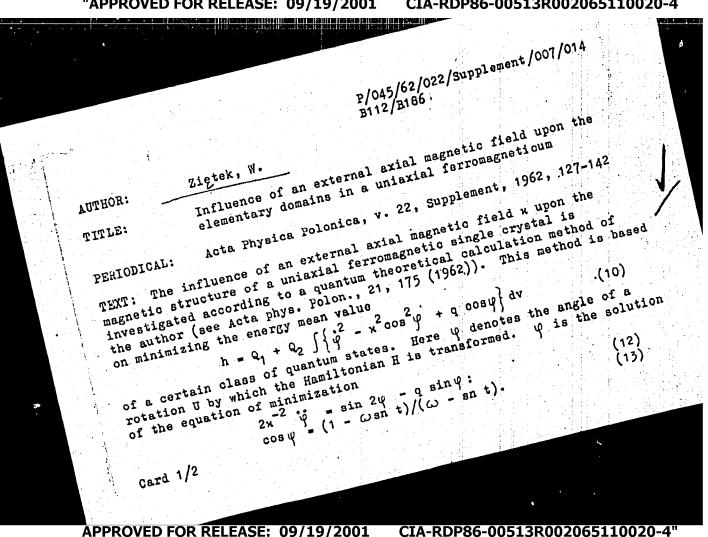
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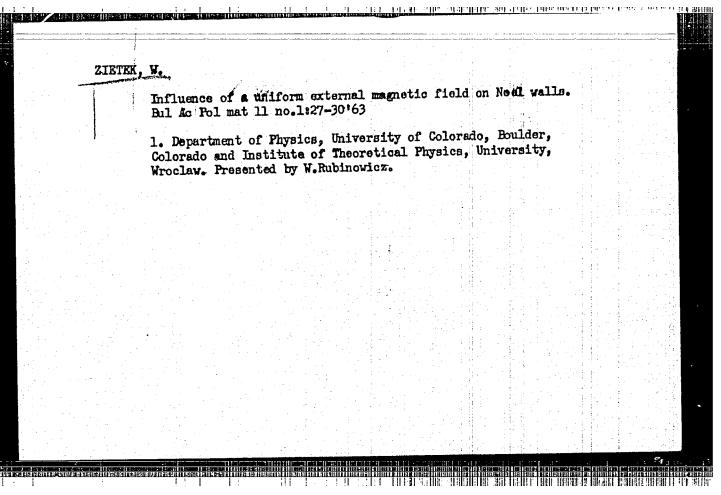
ω is determined by the boundary conditions, which do not take into account the influence of the boundary domains of the single crystal. It is shown that an external magnetic field causes prevailingly a displacement of the Bloch walles in the interior of the crystal. The magnetization curve derived shows satisfactorily the well-known process of saturation. There are 6 figures.

ASSOCIATION: Institut für Theoretische Physik, Universität Wrocław

(Institute for Theoretical Physics, University of Wrockaw)

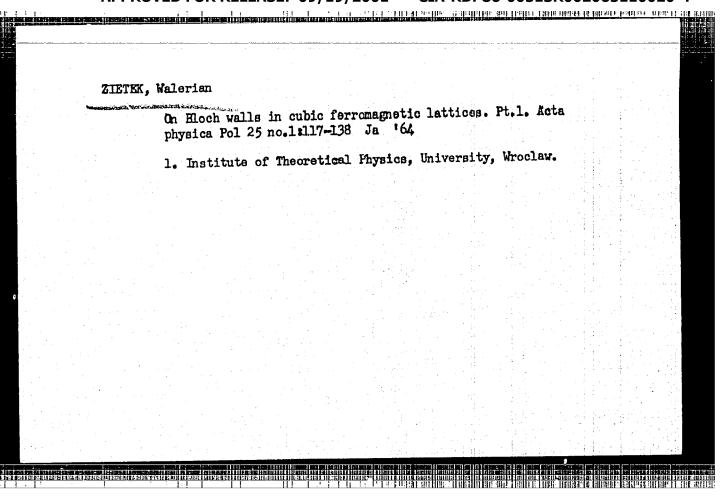
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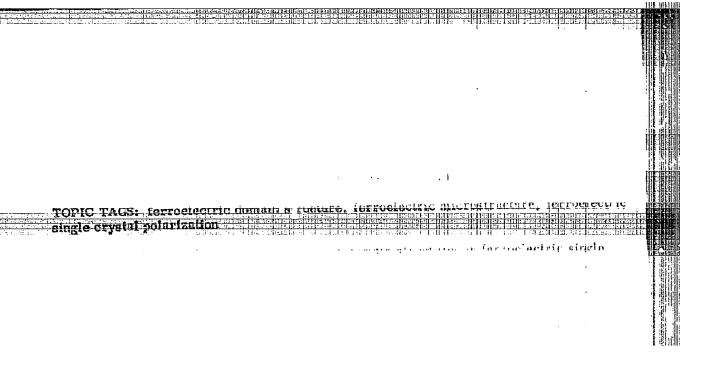
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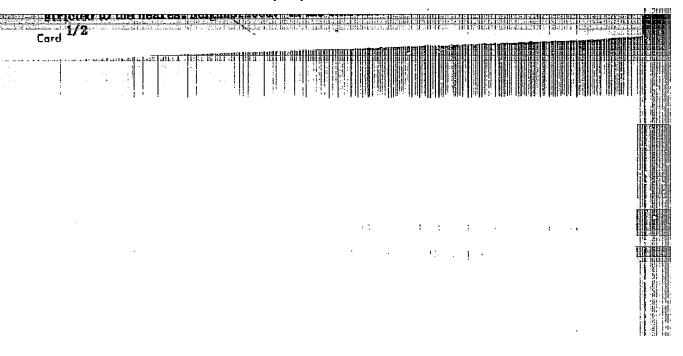


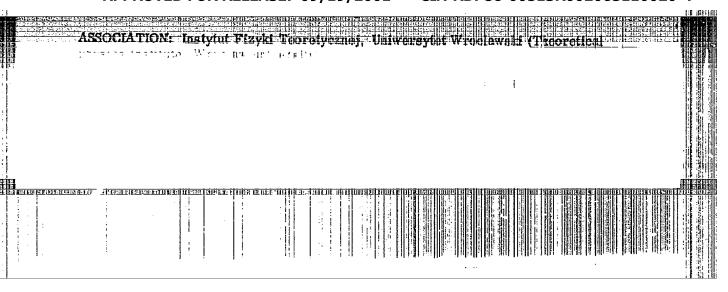
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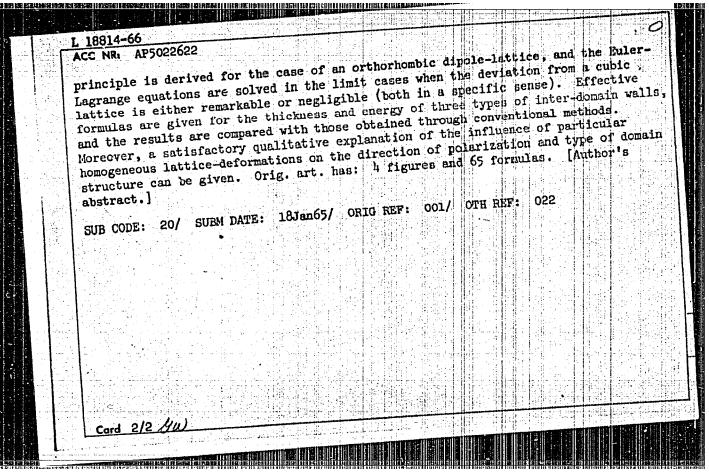


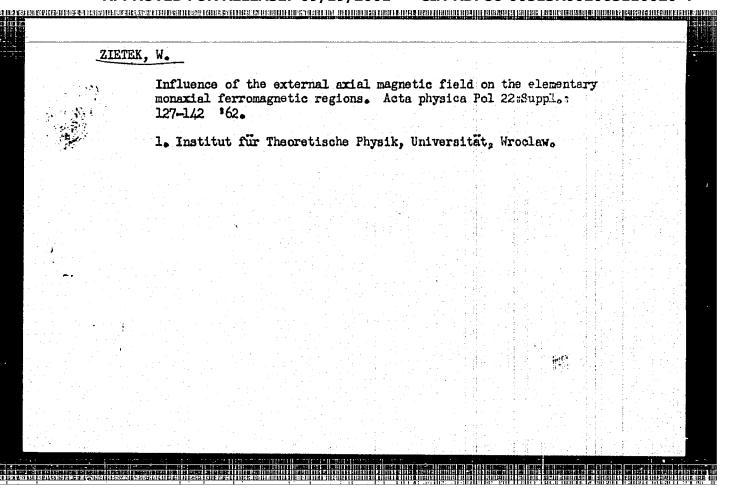




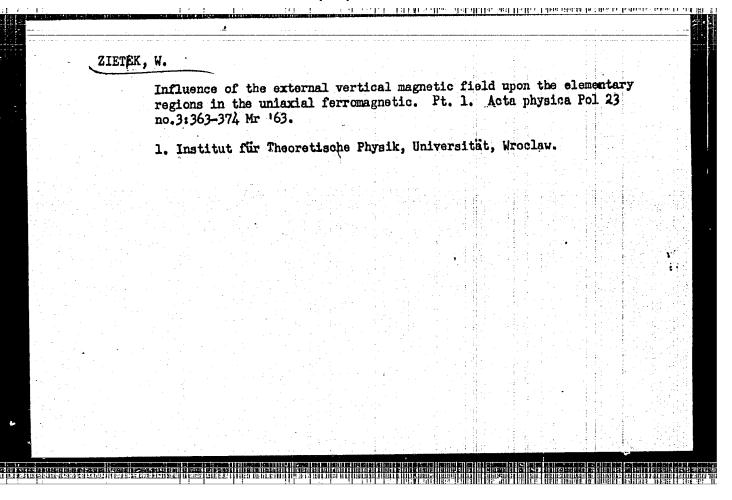
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Development of the views on the domain structure of ferromagnetics. Postepy fizyki 13 no.4:407-429 '62. 1. Instytut Fizyki Teoretycznej, Uniwersytet, Wroclaw i Instytut Fizyki, Polska Akademia Nauk, Wroclaw.

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ZIETEK, Walerian

On magnetic structures in monoaxial ferromagnetic monocrystals. Acta physica Pol 22 no.1:37-64 Jl 162.

1. Institut für Theoretische Physik, Universität zu Wroclaw, und Physikalisches Institut der Polnischen Akademie der Wissenschaften, Abteilung Wroclaw.

\$/058/63/000/001/093/120 A160/A101

AUTHOR:

Zietek, W.

TITLE:

The classical theory of the magnetic structure of uniaxial forremagnetic single crystals, developed by Landau and Lifschitz

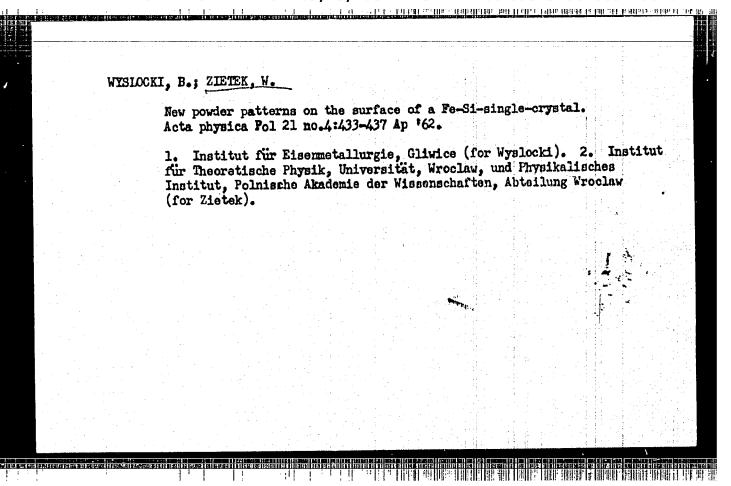
PERIODICAL: Referativnyy zhurnal, Fizika, no. 1, 1963, 109, abstract 15735 ("Bull. Acad. polon. sci. math, astron. at phys.", no. 5, 1962, v.10, 317 - 324, German; summary in Russian)

A more accurate calculation was carried out of the domain structure of a uniaxial ferromagnetic single crystal by the theory of Landau and Lifschits (L. Landau, E. Lifschitz "Phys. Zs. Sov.", 1935, 8, 153). It is shown that the obtained structure is similar to the domain structure calculated by the author previously on the basis of the quantum-mechanical method (Referativny marriel, Fizika, 1962, 7E485).

[Abstracter's note: Complete translation]

Card 1/1

The magnetic structure of the anisotropic ferromagnetic monocrystal as a similar basic state. Acta physica Pol 21 no.2:175-184 F 162. 1. Institut für Theoretische Physik, Universität, Wroclav, und Physikalisches Institut der Politischen Akademie der Wissenschaften, Abteilung Wroclav.



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ZIETEK, W.

Magnetic structures in a hexagonal lattice. Bul Ac Pol Mat 9 no.8: 599-604 '61.

1. Instytut Fizyki Teoretycznej, Uniwersytet, Wrocław i Instytut Fizyki, Oddział Wrocław, PAN. Vorgelegt von W. Dibinowicz.

24,7100 (1153,1454,1136)

33785 P/045/62/021/002/006/007 B137/B102

AUTHOR:

Zietek, Walerian

TITLE:

Magnetic structure of an anisotropic, ferromagnetic single

crystal as an approach to the ground state

PERIODICAL: Acta Physica Polonica, v. 21, no. 2, 1962, 175 - 184

TEXT: A quantum-theoretical method for calculating the magnetic structure is presented, which can be applied to all ferromagnetic crystals with arbitrary lattice structure. The author proceeds from a general Hamiltonian which allows for isotropic Heisenberg exchange forces, anisotropic magnetic exchange interaction forces, and for magnetostriction. In particular, this Hamiltonian operator includes the multipole interaction with relevant exchange coupling constants and the form of the anisotropic, magnetic energy with the macroscopic anisotropy constants K_0 , K_1 , and K_2 ,

which are written in operator form. The state that is closest to the ground state of an anisotropic, ferromagnetic single crystal and, consequently, to its magnetic structure is selected from the class of competitive quantum states by minimizing the mean value of the Hamilton Card 1/3

33785 P/045/62/021/002/006/007 B137/B102

Magnetic structure of an ...

operator. The selection is carried out on the strength of the experimentally observed structures. For the sake of simplicity, the direction cosines of rotating spin vector are assumed to be constant throughout domains of the crystal. The mean energy is calculated by determining the mean value of the Hamilton operator in the class of states in question. This mean value is independent of the type and shape of the crystal. The angle of rotation of the spin vector is determined by the variational principle. For the purpose of calculating the magnetic structure, the crystal is decomposed into M domains. If the variation at the interfaces of these domains vanishes, one obtains M Euler-Lagrange equations which furnish the solution step by step. Continuity and differentiability depend on the boundary conditions at the surface of these domains. Professor Doctor S. Ingarden is thanked for valuable hints and discussions. There are 4 figures and 27 references: 11 Soviet-bloc and 16 non-Soviet-bloc. The four most recent references to Englishlanguage publications read as follows: van Vleck, J. H., Proc. Inst. Radio Engrs., 44, 1248 (1956); Phys. Rev., 78, 266 (1950); Conference on Magnetism and Magnetic Materials, Boston, 1956; Kittel, C., Rev. mod. Phys., 21, 541 (1949); Suppl. Nuovo Cimento, 6, 895 (1957); Dyson, F. J., Card 2/3

"APPROVED FOR RELEASE: 09/19/2001

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24,2200

Zietek. W. AUTHOR:

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Magnetic structures in hexagonal lattices TITLE:

Referativnyy zhurnal, Fizika, no. 7, 1962, 64, abstract 75485 ("Bull. Acad. polon. sci. Ser. sci. math., astron. et phys.", 1961, PERIODICAL:

9, 599 - 604, German; Russian summary)

On the basis of a previously treated method (NZhFiz, 1962, 3E511) a quantum-mechanical calculation of the domain structure of an ideal enisotropic ferromagnetic crystal having a hexagonal lattice is carried out. The results obterromagnetic crystal maving a metagonal factors is carried out. The results out tained by the author appear to be a certain generalization of known works by Bloch (Bloch, F., "Z. Phys.", 1932, 74, 295) and L. D. Landau and Ye. M. Lifshitz (Landau, L., Lifshitz, Ye., "Phys. Z. Sovietunion", 1935, 8, 153).

[Abstracter's note: Complete translation]

Card 1/1 * 5/058/62/000/003/073/092-

40280 P/045/62/022/001/001/001 B125/B102 24,2200 AUTHOR: Zietek, Walerian On magnetic structures in the uniaxial ferromagnetic single TITLE: crystal Acta Physica Polonica, v. 22, no. 1(7), 1962, 37 - 64 PERIODICAL: TEXT: Normally the Bloch structure and the Landau-Lifshits structure of uniaxial ferromagnetic single crystals are calculated under very general conditions. The present method is more consistent because it takes account of the magnetic interaction in the Hamiltonian; also it takes more action count of the lattice structure than the earlier methods do. However, only interactions between nearest neighbors are considered. The outer magnetic field as well as the influence of the classical dipole interaction and of magnetostriction are neglected. The Bloch wall and the marginal domains can be calculated without introducing artificial approximate assumptions but the calculations are extensive. Restricted to the terms which are bilinear in the spin operators the Hamiltonian reads: H Card 1/4

P/045/62/022/001/001/001 B125/B102 On magnetic structures in the ... using the designations of Zietek (Acta phys. Polon., 21, 175 (1962)). takes account of the isotropic exchange interaction (with the tensor Paf negative Heisenberg exchange integral A) and of the anisotropic pseudodipole interaction (positive coupling constant C). On these assumptions the magnetic structure of the inner layer has a kind of rotation invariant with respect to the hexagonal axis. The minimum mean energy of the inner layer is: $h_0^{\text{I}} = 3\text{nS}^2(A_a + C_a) + 2\text{nS}^2(A_b - 2C_b) + (3/2)\text{naS}^2\Lambda^{-1} \left\{2 \left(4A_a + C_a\right)\left(3C_a - 4C_b\right)\right\}^{1/2}$. The limiting process $\Delta \to \infty$ ($C_a = C_b = 0$ respectively) ensures correspondence with the isotropic ferromagnetic crystal. The Bloch walls in the marginal layer are strongly displaced and the inner domains of the Bloch structure are truncated considerably. On the crystal surface, free magnetic poles must be visible. The broader the elementary domains, the thinner is the marginal layer. In the Bloch structure the breadth of the elementary domains is $\Delta_B = 2((2/3\varepsilon)aL_3)^{1/2}(W/G)^{1/4}$ Card 2

On magnetic stru		2/022/001/001/00 02	
	$h_0^{\min} = -E_0 - E_0' + E_0'' \sqrt{\frac{\varepsilon}{2}}$	(5.4),	
	$E_0'' = 6S^2 L_1 L_2 V_0^{-1} (3a GL_3)^{\frac{1}{2}} (WG)^{\frac{1}{2}} > 0$	(5.5)	
and in the Lands	u-Lifshits structure		
	$\Delta_L = 2 \left(\frac{1}{3\varepsilon'} aL_3 \right)^{1/4} (1 \overline{\nu}/G)^{1/4},$	(5.6),	
	$\tilde{h}_{0}^{\min} = -E_{0} - \frac{1}{4} E_{0}' + \frac{1}{4} E_{0}'' \sqrt{\varepsilon'}$	(5.7)	
with ·			\
	$-E_0 = 3NS^2(A_a + C_a) + 2NS^2(A_b - 2C_b) < 0,$ $E'_0 = 3N_{12}S^2ab^{-1}\sqrt{WC} > 0,$	(5.2)	J.
	$E_0 = 3Y_{12}S^2ab^2 + y + G > 0,$ $W = -2(4A_a + C_a) > 0,$		
	$G = 4C_b^1 - 3C_a > 0$		

On magnetic structures in the...

P/045/62/022/001/001/001 B125/B102

and (5.5). With both these structures the breadth of the elementary domains depends only on the crystal thickness L_3 in the hexagonal direction. The Landau-Lifshits structure is more favorable if $L_3 > L^0$, the Bloch structure if $L_3 < L^0$. Systematic observations of the structure existing in thick single crystals having different thickness but the same shape are desirable. There are 20 figures.

ASSOCIATION: Institute of Theoretical Physics, University of Wrocław; Physics Institute of the Polish Academy of Sciences, Department Wrocław

SUBMITTED: October 24, 1961

Card 4/4

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Quantum theoretical deduction of the magnetic structure of anisotropic ferromagnetic monocrystals. Bul Ac Pol mat 9 no.3:221-224 '61. 1. Instytut Fizyki, Universytet, Wroclav i Instytut Fizyki, Oddzial Wroclav Polska Akademia Nauk, Presented by W. Rubinowicz. (Crystallography) (Magnetic materials)

SERAFINSKA, Daniela; mgr.; ZIETKIEWICZ, Witold.

Influence of the bacterial flora on the acceptance of skin grafts in burns. Pol. tyg. lek. 20 no.11:392-394 15 Mr 165

1. Z Pracowni Mikrobiologii Instytutu Hematologii (Kierownik: mgr. D. Serafinska) i z Kliniki Chirugianna Instytutu Hematologii (Kierownik: doc. dr. and, Andreas Trainnovali Ideasced))
prof. dr. med. W. Midowski.

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CZAYKOWSKI, Leszek E.; ZIETKIEWICZ, Jamina Results of synovectomy in chronic genitis in children. Chir. narzad. ruchu ortop. Pol. 28 no.7:719-722 '63 1. Z Panstwowego Sanatorium Cruzlicy Kostno-Stawowej im. J. Krasickiego w Otwocku (Dyrektor: dr. J. Sowinski).

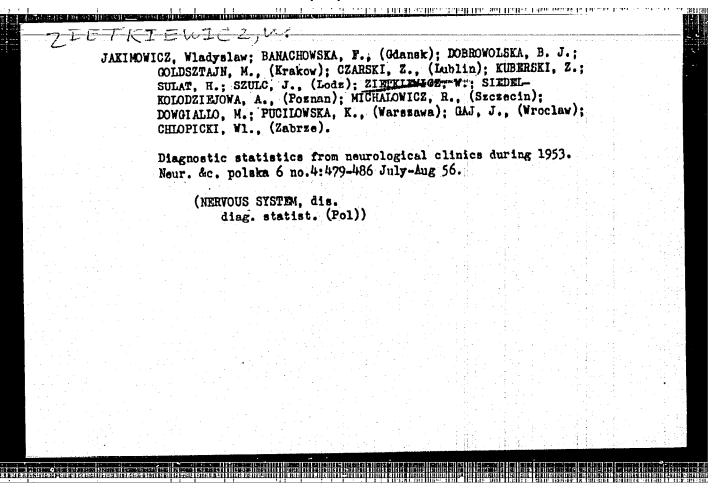
BOREJKO, Maria; SOWINSKI, Jerzy; ZIETKIEWICZ, Janina

Case of tuberculosis ossium pseudocystica multiplex. Pol. tyg.
lek. 20 no.38:1427-1429 20 S '65.

1. Z Sanatorium Gruzlicy Kostno-Stawowej im. J. Krasickiego w
Otwocku (Dyrektor: dr. med. Jerzy Sowinski).

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ZIETKIEWICZ, Witold: NASILCWSKI, Wieslaw Homo-transplantation of the skin in the treatment of burns. Polski tygod.lek. 15 no.37:1406-1408 12 S '60. 1. Z Oddzialu Chirurgicznego Instytutu Hematologii; dyrektor: doc. dr med. A.Trojanowski. (SKIN TRANSPLANTATION) (BURNS surg)



ZIETKIEWICZ, Witold

Effect of general systematic factors on the acceptance of skin grafts in burns. Pol. tyg. lek. 20 no.11:390-392 15 Mr 65.

Transplantation of preserved autologous skin grafts. Ibid.: 394-395

Effect of cooling on the reduction of the depth and duration of tissue overheating in burns. Ibid.:395-396

"In vitro" digestion of burned necrotic skin by means of enzymes. Ibid.:396-398.

A new model of razor-blade dermatcme. Ibid.: 402-403

Antidcubitus saline bed. Ibid.:406-407

1. Z Kliniki Chirurgicznej Instytutu Hematologii (Kierownik Kliniki: doc. dr. med. A. Trojanowski [deceased] i prof. dr. med. Witold Rudowski.

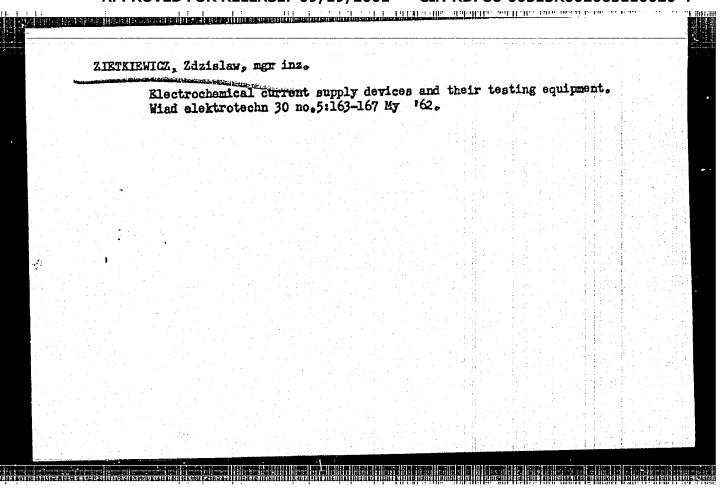
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Bacterial flora of burns. Pol. tyg. lek. 20 no.11:283-385 15 Mr 65.

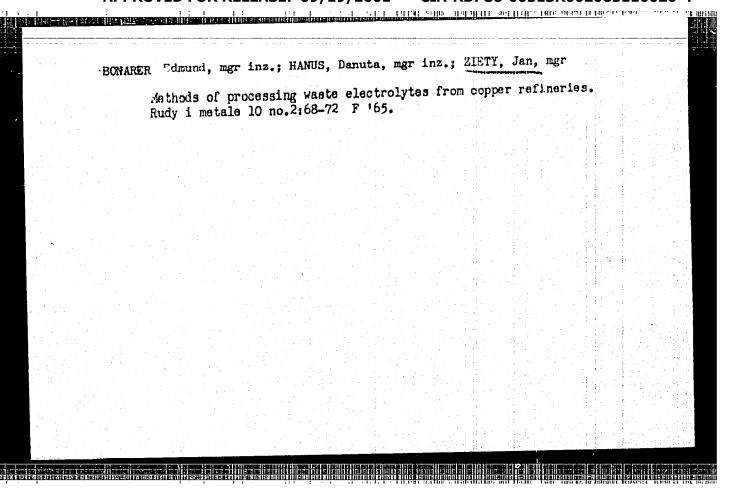
1. 1. Z Pracowni Mikrobiologii Instytutu Hematologii (Kierowniks Pracownis dr. J. Slomska-Schmitt) oraz z Kliniki Chirurgioznej Instytutu Hematoligii (Kierowniki doc. dr. med. Andrzej Trojanowski [deceased] i prof. dr. med. Witold Budowski.).

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A committee for nuclear engineering has been organized in Poznan. Przegl techn 85 no. 30: 10 26 Jl 164. 1. Chairman of the Voivodeship Contact Committee of the Central Technical Organization, Poznan.		
Poznan. Przegl techn 85 no. 30: 10 26 Jl 64. 1. Chairman of the Voivodeship Contact Committee of the	ZIETKOW	/IAK, Alfred, mgr inz.
1. Chairman of the Voivodeship Contact Committee of the Central Technical Organization, Poznan.		A committee for nuclear engineering has been organized in Poznan. Przegl techn 85 no. 30: 10 26 Jl '64.
		1. Chairman of the Voivodeship Contact Committee of the Central Technical Organization, Poznan.
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MINKEVICIUS, A., glav. red.; KRIAUCIUNAS, J., red.; MASTAUSKIS, St., red.; SLAUTA, V., red.; STRUKCINSKAS, M., red.; ZAJANCKUJSKAS, P., red.; ZIEVYTE, Z., red.; SADAUSKAITE, A., red.; SARKA, S., tekhn. red.

[Practices in controlling plant diseases, pests, and weeds]Praktiskos kovos priemones pries augalu ligas, kenkejus ir piktzoles; straipsniu rinkinys. Vilnius, Valstybine politines ir mokslines literaturos leidykla, 1962. 165 p.

1. Lietuvos TSR Mokslu Akademija, Vilna. Botanikos institutas.

(Lithuania—Plant, Protection of)

ZIGANG	IROV	, A.M	.; S	ERGEYE	7, L	.I.;	YUSUI	POV,	V.G	•					-	:		
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AUTHOR: Zigangirov, K.Sh.

TITLE: The normal distribution expression of the Val'd (WALD)

distribution

PERIODICAL: Radiotekhnika i elektronika, v. 7, no. 1, 1962,

164 - 166

TEXT: M.S. Bartlett, using the mechanism of the diffusion processes theory (Ref. 2: The large sample theory of sequential tests, Proc. Cambridge Philos. Soc., 1945, 42, 239) has given an approximate expression for the distribution function of duration of sequential tests in terms of the normal distribution function. For the same case Val'd has obtained from the characteristic function the following expression for the distribution function of test durations

 $P_{c}(t) = \frac{\sqrt{c}}{\sqrt{2\pi}} \int_{0}^{t} \tau^{-\frac{3}{2}} e^{-\frac{c}{2}(\tau + \frac{1}{\tau} - 2)} d\tau,$ (1)

Card 1/2

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The normal distribution ...

where t-time, referred to the average test duration. In the present short communication the author shows that the Val'd distribution may be expressed by normal distribution in the form of

$$P_{c}(t) = \Phi(\frac{t-1}{V\overline{t}} V\overline{c}) + e^{2c}\Phi(-\frac{t+1}{V\overline{t}} V\overline{c})$$
 (3)

where $\Phi(x) = \frac{1}{\sqrt{2}} \int_{-\infty}^{x} e^{-\frac{y^2}{2dy}}$ - the normal distribution function.

From it, using the asymptotic expressions for O(x), the resolution of $P_c(t)$ is obtained for two limiting cases; the condition $t \ll \min$ (1, c) and for $t \gg \max(1/c, 1)$. The author acknowledges the help of A.Ye. Basharinov and B.S. Fleyshman. There are 5 references: 4 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: M.S. Bartlett, the large sample theory of sequential tests, Proc. Cambridge Philos. Soc., 1945, 42, 239.

SUBMITTED: January 4, 1961
Card 2/2

| \$026 | \$/109/63/008/001/003/025 | D262/D308

6,9600 6.9700 AUTHOR:

Zigangirov, K. Sh.

TITLE:

Search problem in a system with finite number of

positions

PERIODICAL: Radiotekhnika i elektronika, v. 8, no. 1, 1963, 16-23

TEXT: Sequential and self-tuning search procedures are analyzed and compared showing the superiority in speed of the self-tuning system. It is assumed that signal is present only in one of n channels, with equal likelihood for all channels. The search appropriate converts output values from channels into logarithms of paratus converts output values from channels into logarithms of probability ratios and compares them with threshold values. Proprobability ratios and compares them with threshold values are calculated search durations, with signal present or absent, are calculated search durations, with signal present or absent, are calculated search both search systems. The self-tuning system is always searchfor both search systems. The self-tuning system is always searching in the channel for which the instant probability of the signal ing in the channel for which the instant probability of the signal the channel for which the instant probability of the signal ing in the channel for which the instant probability of the signal ing in the channel for which the instant probability of the signal ing in the channel for which the instant probability of the signal ing in the channel for which the instant probability of the signal ing in the channel for which the instant probability of the signal ing in the channel for which the instant probability of the signal in the channel for which the instant probability of the signal in the channel for which the instant probability of the signal in the channel for which the instant probability of the signal in the channel for which the instant probability of the signal in the channel for which the instant probability of the signal in the channel for which the instant probability of the signal in the channel for which the instant probability of the signal in the channel for which the instant probability of the signal in the channel for which the instant probability of the signal in the channel for which the instant probability of the signal in the channel for which the instant pro

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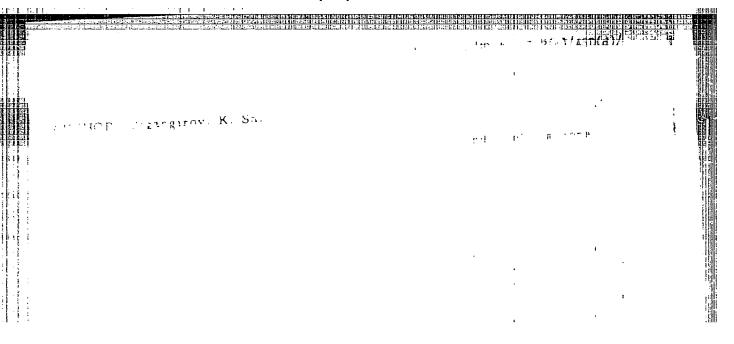
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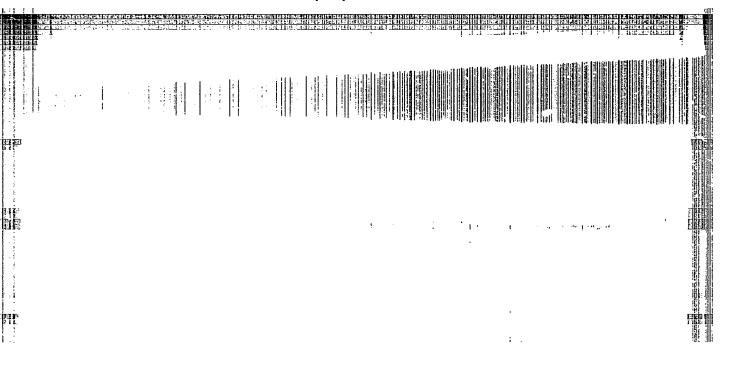
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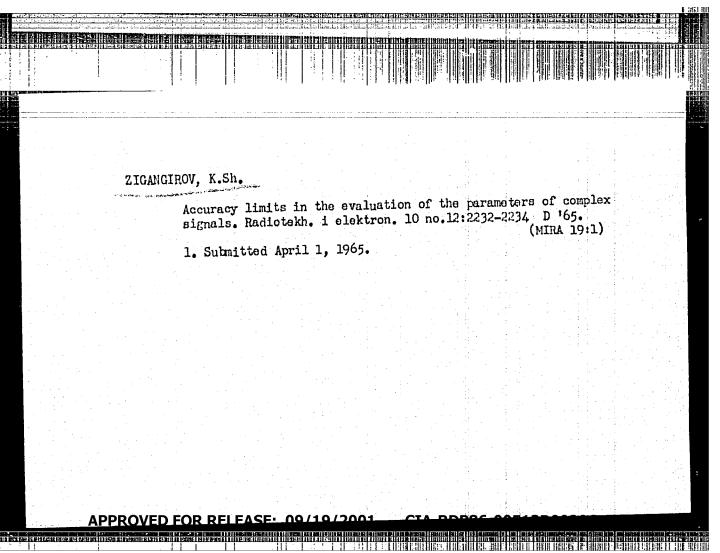
selection being equal for all channels. The search is finished when the probability ratio logarithm exceeds a predetermined value signifying that signal is present, or when logarithms in all channels are below a value signifying that there is no signal. The case is analyzed in detail when probability logarithms vary at the instant of sampling as continuous normal random values, with dependent variations. The comparison of sequential and self-tuning systems shows that probability of false alarm (only if it is small), the probability of missing the signal, and search duration in the absence of signal are all approximately equal for both systems. When, however, the signal is received, search duration is shorter in the self-tuning system. The self-tuning system requires double memory capacity in comparison with the sequential system. The method adopted for calculating the duration of search is fully explained in the appendix. Guidance by A.Ye. Basharinov is acknowledged. There is 1 figure.

SUBMITTED: December 19, 1961

Card 2/2







AUTHOR: Zigangirov, K. Sh. ORG: None TITLE: A nonparametric criterion for a comparison of selections SOURCE: Problemy peredachi informatsii, v. 1, no. 3, 1965, 118-121 TOPIC TAGS: pattern recognition, mathematic method ABSTRACT: The part of the statistical problem of image discrimination that pertains to (technical and medical), in the development of reading machines, and in the classification of (technical and medical), in the development of reading machines, and in the criterian signals in radiolocation. A problem close to this was studied in the theory of signal detection (I. W. Carlyle, I. B. Thomas. On nonparametric criteria being used for its solution. In Theory, 1964, 10, 2, 146-152.) with nonparametric gignal detectors. Solution of problems on a tis necessary to use nonparametric criteria. Specifically, in the solution of problems on a is necessary to use nonparametric criteria. Specifically, in the solution of problems on a comparison of two selections, use is made of the rank criterion which is almost as effective as wilcoxon. The present author investigates a rank criterion which is almost as effective as the Wilcoxon criterion, but is free of the latter's short-comings. The study is limited to the Carl 1/2 UDC: 621,391,18	- 1- 1
ORG: None TITLE: A nonparametric criterion for a comparison of selections SOURCE: Problemy peredachi informatsii, v. 1, no. 3, 1965, 118-121 TOPIC TAGS: pattern recognition, mathematic method ABSTRACT: The part of the statistical problem of image discrimination that pertains to (Upattern recognition) according to a prescribed set of characteristics is applied in diagnostics (technical and medical), in the development of reading machines, and in the classification of (technical and medical), in the development of reading machines, and in the theory of signal detection (I. W. Carlyle, I. B. Thomas. On nonparametric signal detectors. IEEE Trans. Inform. (I. W. Carlyle, I. B. Thomas. On nonparametric criteria being used for its solution. In the solution of real recognition problems the nature of general sets is often unknown, and it nesolution of real recognition problems the nature of general sets is often unknown, and its necessary to use nonparametric criteria. Specifically, in the solution of problems on a comparison of two selections, use is made of the rank criteria of Kolmogorov-Smirnov and comparison of two selections, use is made of the rank criteria of Kolmogorov-Smirnov and wilcoxon. The present author investigates a rank criterion which is almost as effective as the Wilcoxon criterion, but is free of the latter's short-comings. The study is limited to the	1 30395_66 EWT(d)/T/EWP(1) SOURCE CODE: UR/0406/65/001/003/0116/
TOPIC TAGS: pattern recognition, mathematic method ABSTRACT: The part of the statistical problem of image discrimination that pertains to Continuous to a prescribed set of characteristics is applied in diagnostics (pattern recognition according to a prescribed set of characteristics is applied in diagnostics (technical and medical), in the development of reading machines, and in the classification (technical and medical), in the development of reading machines, and in the theory of signal detection (signals in radiolocation. A problem close to this was studied in the theory of signal detection (I. W. Carlyle, I. B. Thomas. On nonparametric criteria being used for its solution. In (I. W. Carlyle, I. B. Thomas. On nonparametric criteria being used for its solution. In theory, 1964, 10, 2, 146-152.) with nonparametric criteria being used for its solution and it Theory, 1964, 10, 2, 146-152.) with nonparametric oriteria being used for its solution of problems on a the solution of real recognition problems the nature of general sets is often unknown, and it necessary to use nonparametric criteria. Specifically, in the solution of problems on a comparison of two selections, use is made of the rank criteria of Kolmogorov-Smirnov and is necessary to use nonparametric criteria. Specifically, in the solution of problems the solution of problems the rank criteria of Kolmogorov-Smirnov and its necessary to use nonparametric criteria. Specifically, in the solution of problems to the wilcoxon. The present author investigates a rank criterion which is almost as effective as comparison of two selections, use is made of the rank criterion which is almost as effective as comparison of two selections, use is made of the rank criterion which is almost as effective as comparison of two selections, use is made of the rank criterion which is almost as effective as comparison of two selections, use is made of the rank criterion which is almost as effective as comparison of two selections, as the rank criteria because of the rank crit	AUTHOR: Zigangirov, K, Sh,
	TOPIC TAGS: pattern recognition, mathematic method ABSTRACT: The part of the statistical problem of image discrimination that pertains to the comparison of the statistical problem of image discrimination that pertains to the comparison of the comparison of the classification of the comparison of two selections, use is made of the rank criterian which is almost as effective as the Wilcoxon. The present author investigates a rank criterion which is almost as limited to the UDC: 621.391.18

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